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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,653	01/11/2002	Phillip J. Edwards	4189-PA5	9397
75	590 07/31/2003			
Robert A. Parsons			EXAMINER	
PARSONS & GOLTRY Suite 260			NGUYEN, DUNG T	
340 East Palm Lane Phoenix, AZ 85004		•	ART UNIT	PAPER NUMBER
,			2828	
			DATE MAILED: 07/31/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)				
		10/044,653	EDWARDS ET AL.				
		Examiner	Art Unit				
		Dung (Michael) T Nguyen	2828				
The MAILING DATE of this communication appears on the cover she t with the correspondence address Period for Reply							
THE N - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 (SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply bo within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fi cause the application to become ABANDC	e timely filed days will be considered timely. rom the mailing date of this communication. DNED (35 U.S.C. § 133).				
1)□	Responsive to communication(s) filed on	<u> </u>					
2a)□	This action is FINAL . 2b)⊠ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
-	on of Claims						
-	 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 						
		wit from consideration.					
<u> </u>	Claim(s) is/are allowed.						
·	Claim(s) <u>1-15</u> is/are rejected. Claim(s) is/are objected to.						
•	· · · — ·	r election requirement	PAUL IP				
8) Claim(s) are subject to restriction and/or election requirement. SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.							
							
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
aju	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)ズ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)							

DETAILED ACTION

IDS

The IDS listing has not been received.

Claim Objections

Claim 12 is objected to because of the following informalities: the preamble "Component mounting and interconnect apparatus" should be corrected to --- **Optical** component mounting and interconnect apparatus ---.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 1, the claim fails to define the structure relationship between the layer of insulating material and 1st and 2nd opposed major surfaces.

The remaining claims depend on claim 1 and therefore are rejected.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 7-10, and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Henson et al. (US 5,940,562).

With respect to claims 1-3, 5, 7-8, 10, 12 and 14, Henson et al. show in Figs. 4a and 4b an optical component mounting and interconnect apparatus comprising a base 10 including at least one layer of insulating material (col. 5, lines 14-16) with a plurality of vias including a signal via an the two ground vias parallel with an opposite site of the signal via, an edge emitting laser 30 (optical component) (col. 5, line 38) having an electrical terminal affixed to the 1st end of the signal via, and a flex circuit 40 with an electrical connection to the 2nd end of the signal via.

With respect to claims 4, 9, and 13, Henson et al. disclose the base 10 including plastic (col. 5, lines 15-17).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6, 11, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henson et al. (US 5,940,562) in view of Edwards et al. (US 2003/0103740). Henson et al. disclose all the limitations of the claims except for the lens block. Edwards et al. teach in Fig. 7c the lens block. For the benefit of receiving the light from laser and redirecting the light in the optical component mounting, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Henson et al. a lens block as taught by Edwards et al.

Citation of The Pertinent References

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: US 2002/0101816, 2002/0191910, 2002/0031313, 2002/0114589, and 6404960.

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (703) 305-7159. The examiner can normally be reached on 8:30 - 17:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 306-5511 for regular communications and (703) 306-5511 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

PAUL IP

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

Nguyen (Michael) Dung

July 3, 2003